CONTENTS OF VOLUME 35 (1994)

Duplex Doppler sonography and angiography in the evaluation for liver transplantation
F. KOLMANNSKOG, J. Å. JAKOBSEN, E. SCHRUMPF & A. BERGAN 1

Ultrasound monitored laser-induced local hyperthermia in the liver. An experimental study on pigs
A.-M. LÖFBERG, D. ARVIDSSON, T. ANDERSSON, P. G. LINDGREN, L.-E. LÖRELIUS & H. NORDLINDER ... 6

Reversed diastolic blood flow at duplex Doppler. A sign of poor prognosis in renal transplants
O. SAARINEN, K. SALMELA, J. AHONEN & J. EDGREN 10

Diffuse renal disease. Diagnosis of ultrasound-guided cutting needle biopsy
T. TIKKAKOSKI, K. WAAHTERA, H. MÄKÄRÄINEN, M. PÄIVÄNSALO, K. HUTTUNEN, M. APAJA-SARKKINEN & H. AUTIO-HARMAINEN 15

Cystic renal cell carcinoma. Imaging findings with pathologic correlation
Y. YAMASHITA, O. WATANABE, T. MIYAZAKI, H. YAMAMOTO, M. HARADA & M. TAKAHASHI 19

Ultrasonography of thymoma with pathologic correlation
F. SAKAI, S. SONE, T. KAWAI, A. MARUYAMA, K. KIYONO, M. MORIMOTO, M. HANIUDA, T. HONDA, K. ISHII, S.-I. IKEDA, O. KOBAYASHI & H. NISHIMURA 25

Simultaneous videoradiography and computerized pharyngeal manometry – videomanometry
R. OLSSON, H. NILSSON & O. EKBERG 30

Diagnosis of ganglions in the hand and wrist by sonography
M. HÖGLUND, P. TORDAI & C. MUREN 35

Posttraumatic osteolysis of the pubic bone simulating malignancy
A. M. ALBERTSEN, N. EGUND, A. G. JURIK & E. JACOBSEN 40

Dual photon absorptiometry for bone mineral measurements using a gamma camera
R. VALKEMA, H. PRPIC, J. A. K. BLOKLAND, J. A. J. CAMPS, S. E. PAPAPOULOS, O. L. M. BIJVOET & E. K. J. PAUWELS 45

Distribution and dosimetry of ^{111}In DTPA-D-Phe-octreotide in man assessed by whole body scintigraphy
M. BAJC, J. PALMER, T. OHLSSON & L. EDENBRANDT 53

Sister chromatid exchanges in cultured amniocytes exposed to diagnostic ultrasound in vitro
B. PORFIRIO, B. DALLAPICCOLA, C. CITTANTI, P. COLAMUSSI, M. GIGANTI & A. PIFFANELLI 58

Contrast radiography in small bowel obstruction. A randomized trial of barium sulfate and a nonionic low-osmolar contrast medium
T. G. SANDIKCIOGLU, S. TORP-MADSEN, I. KROGH PEDERSEN, K. RAASCHOU, T. MYGIND & H. S. THOMSEN 62

MR imaging of pituitary region lesions with gadodiamide injection
J. K. HALD, I. O. SKALPE, S. J. BAKKE & P. H. NAKSTAD 65

Interaction between beta-blockers and contrast media during intracoronary administration in rabbit heart
K. SALBAŞ, G. AKGÜN, G. PAMİR & T. GÜREL ... 70

Cardiac effects of coronary arteriography with electrolyte addition to iohexol. A study in dogs with and without heart failure
H. K. PEDERSEN, E. A. JACOBSEN, H. REFSUM & N. E. KLØW 77

Effect of iodinated contrast media on ionic calcium
K. HAYAKAWA, Y. OKUNO, K. FUJIWARA & Y. SHIMIZU 83

Three-dimensional display of liver, spleen, hepatoma, and blood vessels by MR imaging and computer graphics
T. KASHIWAGI, T. MURAKAMI, M. AZUMA, J. TAMAKI, K. ISHIBASHI, Y. KISHIDA, Y. TAKEI, S. KAWANO, H. FUSAMOTO, T. KAMADA, H. NAKAMURA & T. KOZUKA 88

Fracture of the occipital condyle as an incidental finding during CT-evaluation of a maxillary fracture
R. OLSSON & R. KUNZ 90

MR spectroscopy in clinical research. Review article
O. HENRIKSEN 96

Age dependent white matter lesions and brain volume changes in healthy volunteers
P. CHRISTIANSEN, H. B. W. LARSSON, C. THOMSEN, S. B. WIESLANDER & O. HENRIKSEN 117

Phase-contrast cine MR imaging of normal aqueductal CSF flow. Effect of aging and relation to CSF void on modulus MR
F. BARKHOF, M. KOUWENHOVEN, P. SCHELTENS, M. SPRENGER, P. ALGRA & J. VALK 123

Three-dimensional black blood MR angiography of the liver during breath holding. A comparison with two-dimensional time-of-flight MR angiography
Y. SUTO, Y. OHUCHI, T. KIMURA, T. SHIRAKAWA, N. MIZUUCHI, O. TAKIZAWA, T. YAMANE, M. KAMBA, S. MORIYAMA & Y. OHTA 131

A one-stage method for obtaining CT during arterial portography and hepatic arteriography
T. IRIE, K. TAKESHITA, K. MAKITA, T. YAMAUCHI & S. KUSANO 135

Percutaneous ethanol injection therapy of adenomatous hyperplastic nodules in cirrhotic liver disease
R. LENCIONI, D. CARAMELLA, C. BARTOLOZZI, S. MAZZEO & G. DI COSCIO 138

Iodized oil in the portal vein after arterial chemoembolization of liver metastases – a caution regarding hepatic necrosis
P. G. Tarazov 143
MR imaging of the pancreas at 0.3 T using a superparamagnetic oral contrast medium
N.-O. Wallengren, S. Holtås, Å. Andrén-Sandberg & T. Bach-Gansmo 147
CT assessment of normal splenic size in children
P. Prassopoulos & D. Cavouras 152
Ultrasonographic abdominal screening of atomic bomb-exposed subjects
W. J. Russell, Y. Higashi, T. Fukuya, Y. Hosoda, J. Murakami, A. Kawashima, S. Murayama, T. Ohuchida, F. Mihara, M. Takagi & S. Fujita . . 155
Clinical experience of ^{123}I-IMP scintigraphy in detecting vertebral bone metastases of hepatocellular carcinoma. A comparison with bone scintigraphy with ^{99m}Tc-MDP
Y. Suto. T. Iwamiya, N. Tanigawa, M. Shabana & Y. Ohta 159
Assessment at CT of the rheumatoid shoulder with surgical correlation
M. Albertsen, N. Egund, E. Jonsson & L. Lidgren 164
CT-diagnosis of deep-seated lipomas with alarming symptoms
C. Muren, M. Lee & L. Juhlin 169
Intravascular contrast media and thrombin generation
Z. Parvez & H. Vik 172
In vivo fluorescence microscopy of microcirculation in the renal cortex of mice. Part V. Effects of mannitol and iohexol infusions in normal, obese/hyperglycemic and diabetic mice
B. Högström, S.-O. Hietala & P. Rooth 176
A prospective comparison of iotrolan and iohexol in lumbar myelography
A. Wagner, C. Jensen, A. Sæbye & T. B. Rasmussen 182
Nonionic contrast media in pediatric CT. A comparative study of intravenous use of iopentol and iohexol
L.-M. Wiklund, I. Brolin & K. Sjöholm 186
Renal effects of nonionic contrast media after cardioangiography
J. Å. Jakobsen, K. J. Berg, U. Brodahl, B. Lakke & A. Moxness 191
Phosphorous and proton spectroscopy in relation to near incarceration and incarceration of the human brain
K. Garde, A. C. Mortensen, P. B. Toft, M. B. Sørensen, F. F. Madsen & O. Henriksen . . 197
Acro-osteolysis (Hajdu-Cheney syndrome)
C. Muller, P. Goupille, J.-P. Valat & G. Lorette 201
MR imaging of cerebrospinal fluid dynamics in health and disease. On the vascular pathogenesis of communicating hydrocephalus and benign intracranial hypertension
D. Greitz, J. Hannerz, T. Rähn, H. Bolander & A. Ericsson 204
Preembolization functional evaluation in supratentorial cerebral arteriovenous malformations with superselective intraarterial injection of thiopental sodium solution
M. H. Han, K. H. Chang, D. H. Han, K. M. Yeon & M. C. Han 212
Prognostic significance of contrast enhancement and tumor demarcation at CT of squamous cell carcinomas of the oral cavity and oropharynx
F. Aspestrand, M. Boysen & V. Engh 217
Scintigraphic diagnosis of thyroid cancer. Correlation of thyroid scintigraphy and histopathology
R. Oommen, N. M. Walter & N. R. Tulasi 222
Conventional and high-resolution CT in asymptomatic asbestos-exposed workers
P. A. Gevenois, P. De Vuyst, S. Dedeire, J. Cosaert, R. Vande Weyer & J. Struyven 226
CT and chest radiography in the evaluation of adult respiratory distress syndrome
M. Tagliabue. T. C. Casella, G. E. Zincone, R. Fumagalli & E. Salvini 230
Quality assurance of the bedside chest radiography process
H. Pohjonen, S. Bondestam, P. Karp, J. Kinnunen, O. Korhola, P. Sakari, S. Savikurki, T. Honkala & C.-G. Standertskjöld-Nordenstam 235
Improvement of bedside chest radiograph quality using a high ratio grid and an electronic angle meter for alignment
O. Korhola, S. Bondestam, S. Savikurki, M. Liuke, A. Kivisaari, A. Lamminen, T. Vehmas & R. Wilmi 244
CT of saber-sheath trachea. Correlation with clinical, chest radiographic and functional findings
J. P. Trigaux, G. Hermes, P. Dubois, B. Van Beers, L. Delaunois & J. Jamart 247
Diagnosis of diffuse lung disease by cutting needle biopsy
P. Lohela, T. Tikkakoski, K. Ämmälä, L. Strengell, I. Suramo & U. K. Repo 251
Paraesophageal varices presenting as a retrocardiac mediastinal mass. A case report
R. Nyman, W. von Sinner, T. Mygind & I. Kagevi 255
Relaxation times of normal breast tissues. Changes with age and variations during the menstrual cycle
K. I. Dean, M.-L. Majurin & M. Komu 258
MR imaging of edematous limbs in lymphatic and nonlymphatic edema
K. Fuji 262
Angiography and colour flow duplex ultrasonography in the evaluation of peripheral ischaemic occlusive arterial disease

J. Zeuchner, J. T. Geitung, P. Lukes & J. H. Göthlin 270
Dynamic gadolinium-enhanced MR imaging in active and inactive immunoinflammatory gonarthritis
M. Østergaard, J. Lorenzen & O. Henriksen . . 275
MR imaging of benign peripheral nerve sheath tumors
V. Söderlund, H. Göranson & H. C. F. Bauer . . 282
Assessment of rotation in proximal humeral osteotomy
V. Söderlund, M. Kronberg & L.-Å. Broström 287
Evaluation of spinal bone changes in patients with chronic renal failure by CT and MR imaging with pathologic correlation
M. Ito, M. Ito, K. Hayashi, M. Noguchi & H. Kitamori 291
Radiation exposure to children in diagnosing and at hydrostatic reduction of intussusception
A. Karlsson, P. Schuwert & W. Mortensson . . 296
Digital rectal examination and transrectal ultrasonography in staging of rectal cancer. A prospective, blind study
S. R. Rafaelsen, O. Kronborg & C. Fenger . . . 300
CT manifestations of intraspinal air associated with pneumomediastinum
Y. Kakitsubata, H. Inatsu, S. Kakitsubata & K. Watanabe 305
Film-screen vs. digital radiography in rheumatoid arthritis of the hand. An ROC analysis
Á. Jónsson, A. Borg, P. Hannesson, K. Herrlin, K. Jonsson, M. Sloth & H. Pettersson 311
Emergency CT in blunt abdominal trauma of multiple injury patients
J. Kinnunen, A. Kivioja. K. Poussa & E. M. Laasonen 319
Lipiodol-CT in the detection of tumor persistence in hepatocellular carcinoma treated with percutaneous ethanol injection
R. Lencioni, D. Caramella, C. Vignali, R. Russo, A. Paolicchi & C. Bartolozzi 323
Prediction of recurrence after HCC resection. Faint oily deposits on preoperative Lipiodol-CT of remnant liver tissue
M. Yamamoto, Y. Iimuro, M. Mogaki, K. Kachi, H. Fujii & Y. Matsumoto 329
Partial splenic embolization with Y-shaped silicone particles
T. Yamauchi, S. Furui, T. Irie & S. Kusano 335
One- versus two-view mammography screening. A prospective population-based study
E. Thurfjell, A. Taube & L. Tabár 340
Mammography screening. One versus two views and independent double reading
E. Thurfjell 345
Low grade coal worker's pneumoconiosis. Comparison of CT and chest radiography
P. A. Gevenois. E. Pichot, F. Dargent, S. Dedeire, R. Vande Weyer & P. De Vuyst 351
Frequency of proximal tubal obstruction in patients undergoing infertility evaluation
K. Wadin, M. Lönnemark, C. Rasmussen & A. Magnusson 357
CT and ultra low field (0.02 T) MR imaging of uterine cervical carcinoma
M. Varpula. P. Kiilholma & P. Klemi 361
Evaluation of lipomatous soft tissue tumors by MR imaging
J. Gelineck, J. Keller, O. Myhre Jensen, O. Steen Nielsen & T. Christensen 367
A comparative analysis of similarity mapping and eigenimaging as applied to dynamic MR imaging of a low grade astrocytoma
J. Rogowska, K. Preston Jr, H. J. Aronen & G. L. Wolf 371
Accuracy of digital videodensitometry in quantitating contrast medium concentration
X. M. Yang, H. Manninen, H. X. Ji, P. Vainio & S. Soimakallio 378
Systemic and pulmonary haemodynamic effects of intravenous infusion of non-ionic isoosmolar dimeric contrast media. An investigation in the pig of two ratio 6 contrast media
L. Sørensen, O. Sunnegårdh, J. Svanegård, S. Lundquist & S.-O. Hietala 383
Simultaneous urography and determination of glomerular filtration rate. A comparison of total plasma clearances of iohexol and ^{51}Cr-EDTA in plegic patients
S. Lundqvist, S.-O. Hietala, C. Berglund & K. Karp 391
Comparison of the safety of standard and triple dose gadodiamide injection in MR imaging of the central nervous system. A double-blind study
M. G. Svaland, T. Christensen & E. Lundorf . . 396
CT demonstration of prostatic zonal anatomy during dynamic contrast infusion
B. Rossen, M. B. Nielsen & E. B. Skriver 400
Quantitative evaluation of intraarterial lymphocyte injection therapy for lymph edema using MR imaging
M. Harada, Y. Amano, K. Matsuzaki, Y. Hayashi, H. Nishitani, M. Yoshizumi, O. Yoshida & I. Katoh 405
CT changes after lumbar percutaneous automated nucleotomy
R. Dullerud, T. Amundsen, P. H. Nakstad & B. Magnæs 409
CT changes after conservative treatment for lumbar disk herniation
R. Dullerud & P. H. Nakstad 415

Pelvic fractures. Assessment by conventional radiography and CT
J. Albrechtsen, J. Hede & A. G. Jurik 420
Hyperplastic callus formation in osteogenesis imperfecta. A case report
A.-J. Burchardt, A. Wagner & P. Basse 426
The value of skull radiography in ophthalmology
R. Sanders, C. J. MacEwen & A. S. McCulloch 429
Intraarticular ganglion between the cruciate ligaments of the knee. A case report
R. Kaatee, Ó. Kjartansson & Á. Brekkan 434
Radiology in laparoscopic cholecystectomy. A retrospective study
P. Leander, O. Ekberg & P. Almqvist 437
Accuracy of double contrast barium enema and sigmoideoscopy in the detection of polyps in patients with diverticulosis
T. Stefánsson, A. Bergman, A. Ekbom, R. Nyman & L. Påhlman 442
Nonparasitic splenic cysts. Ultrasonographic features and follow-up
T. M. J. Siniluoto, M. J. Päivänsalo, S. T. Lähde, M. J. Alavaikko, P. K. Lohela, A. B. T. Typpö & I. J. I. Suramo 447
Complications of ultrasound-guided nephrostomy. A 5-year experience
P. von der Recke. M. B. Nielsen & J. F. Pedersen 452
Primary angiosarcoma of the spleen. CT and MR imaging
H. K. Ha, H. H. Kim, B. K. Kim, J. K. Han & B. I. Choi 455
MR findings of ejaculatory duct cysts
Y. Robert, J.-M. Rigot, N. Rocourt, L. Lemaitre, J. Biserte & E. Mazeman 459
Transrectal ultrasound-guided core biopsies of the prostate. A comparison between the standard 1.2-mm needle and three thinner needles
M. Norberg, C. Busch, J. Stavinoha, P. T. Scardino & A. Magnusson 463
Spiral CT with three-dimensional and multiplanar reconstruction in the diagnosis of anterior chest wall joint and bone disorders
A. G. Jurik & J. Albrechtsen 468
High-resolution CT of the lung in asbestos-exposed subjects. Comparison of low-dose and high-dose HRCT
M.-L. Majurin, M. Varpula, T. Kurki & L. Pakkala 473
Value of CT-guided fine needle aspiration in solitary pulmonary nodules with negative fiberoptic bronchoscopy
F. García Río, S. Díaz Lobato, J. M. Pino, M. Atienza, J. M Viguer, C. Villasante & J. Villamor 478
Distribution of coronary atherosclerosis and its correlation to metabolic risk factors and femoral atherosclerosis
L. Bergstrand, H. Bylund, U. Erikson, G. Helmius, C. Lidell, G. Sundlöf & B. Vessby 481
Population-based mammography screening in clinical practice. Results from the prevalence round in Uppsala county
E. Thurfjell 487
MR findings of a breast oil cyst containing a fat–fluid level. A case report
S. Youssefzadeh, G. Wolf & H. Imhof 492
MR imaging in cerebral gliomas. Tissue component analysis in correlation with histopathology of whole-brain specimens
M. Tovi, M. Hartman, A. Lilja & A. Ericsson . 495
Spontaneous CSF communication to the middle ear and external auditory canal
J. A. Spar 506
Percutaneous transhepatic external biliary drainage utilizing a pig tail balloon catheter
S. Karstrup, T. Mygind & V. Hennild 509
Increased self-diffusion of brain water in hydrocephalus measured by MR imaging
P. Gideon, C. Thomsen, F. Gjerris, P. S. Sørensen & O. Henriksen 514
Craniopharyngiomas. The utility of contrast medium enhancement for MR imaging at 1.5 T
J. K. Hald, O. P. Eldevik. J. A. Brunberg & W. F. Chandler 520
Quantitative contrast-enhanced MR imaging of the optic nerve
J. H. Simon, D. Rubinstein, M. Brown, W. Yuh, M. Birch-Iensen, J. Szumowski & J. Stears 526
MR imaging of the lower spine. Differentiation between infectious and malignant disease
I. Hovi, A. Lamminen, O. Salonen & R. Raininko 532
Blood supply of the lower thoracic and lumbosacral regions. Postmortem aortography in 38 young adults
L. I. Kauppila 541
Femoral head shape in Legg-Calvé-Perthes disease. Correlation between conventional radiography, arthrography and MR imaging
P. Hochbergs, G. Eckerwall, N. Egund, K. Jonsson & H. Wingstrand 545
Primary pelvic bone tumours in children and adolescents – imaging correlation
C. Hugosson, S. Lindahl & A. Rifai 549
Radiographic features of limb lengthening in children
I. Minty, N. Maffulli, T. H. Hughes, D. G. Shaw & J. Fixsen 555
Ultrasonographic measurements of the Achilles tendon in elderly athletes and sedentary men
M. Kallinen & H. Suominen 560
Gd-DTPA-enhanced MR imaging in mediastinal Hodgkin's disease

G. Forsgren, R. Nyman, B. Glimelius, H. Hagberg, S. Rehn & A. Hemmingsson 564
Chondroitin sulfate iron colloid-enhanced MR imaging in patients with hepatocellular carcinoma. Comparison with CT during arterial portography
M. Kamba, Y. Suto & T. Kato 570
Transcatheter hepatic subsegmental arterial chemoembolization therapy using iodized oil for small hepatocellular carcinomas. Correlation between Lipiodol accumulation pattern and local recurrence
R. Murakami, S. Yoshimatsu. Y. Yamashita, K. Sagara, A. Arakawa & M. Takahashi 576
Time-of-flight MR angiography of portal system and collaterals in portal hypertension using a 2-DFT fast spoiled gradient recalled steady-state precession technique
T. Murakami, H. Igarashi, H. Oi, M. Matsushita, T. Kim, H. Kishimoto, H. Nakamura, J. Okamura & T. Kozuka 581
Doppler ultrasound in the diagnosis of renal transplant artery stenosis – value of resistive index
O. Saarinen, K. Salmela & J. Edgren 586
Angiographic and intravascular ultrasonographic findings after endovascular stent implantation
K.-D. Bolz, S. Hatlinghus, R. Wiseth, H. O. Myhre & A. Gronningsæter 590
Ultrasound or CT in splenic diseases?
T. M. J. Siniluoto, T. A. Tikkakoski, S. T. Lähde, M. J. Päivänsalo & M. J. Koivisto 597
Ultrasonographic angiography in gallbladder diseases
T. Kato, Y. Tsukamoto, Y. Naitoh, M. Mitake, Y. Hirooka, T. Furukawa & T. Hayakawa 606
Iodixanol in cardioangiography. A double-blind parallel comparison between iodixanol 320 mg I/ml and ioxaglate 320 mg I/ml
K. Tveit. K.-D. Bolz, B. Bolstad, T. Haugland, K. J. Berg, T. Skjærpe & Y. F. Kloster 614
Addition of sodium to iohexol. A vectorcardiographic study
A. Flinck, K. Selin, M. Dellborg, K. Skinningsrud & S. Ekholm 619
Intraarterial occlusion by radiofrequency
N. Tanigawa, S. Sawada, N. Morioka, T. Iwamiya, T. Senda, M. Kobayashi, Y. Okuda & Y. Ohta 626
Iodixanol in femoral arteriography. A randomized, double-blind, phase III, parallel study with iodixanol 270 mg I/ml and iohexol 300 mg I/ml
Ö. Thorstensen, U. Albrechtsson, B. Calissendorff, H. Lárusdóttir, L. Norgren, M. Tengvar, B. Bolstad & P. Aspelin 629
Double contrast MR imaging with iron colloid and Gd-DTPA in cholangiocellular carcinoma
Y. Suto, Y. Shimatani, T. Kato, M. Kamba, Y. Ohuchi, F. Kodama, T. Kato & Y. Ohta 632
Gallbladder visualization on CT shortly after angiography with ioxaglate
H. Tajima, T. Kaizu, T. Ichikawa & T. Kumazaki 634